

1: integrated antenna
2: tag positioning mark (middle of the antenna)



Product characteristics

Read/write head

Rectangular, plastics

with integrated AS-i slave
profile 7.4

M12 connector

Application

Application

Detection of objects on conveying systems;
suitable for travel speeds up to 0.5 m/s

AS-i

Electrical design

Electrical data

Operating voltage [V]

26.5...31.6 DC (AS-i) ¹⁾

Current consumption [mA]

≤ 50

Protection class

III

operating frequency [kHz]

125

Monitoring range

Travel speed * [m/s]

read: ≤ 0.5 (distance to the ID tag 15 mm)
write: only static

Distance to the ID tag * [mm]

read: ≤ 20 (static)

Distance between read/read heads **
[mm]

≥ 200 side / front

Distance between read/write heads**
[mm]

≥ 400 side / front

Measuring / setting range

value range

16 bits (15-bit ID value, 1-bit message)

Environment

Ambient temperature [°C]

-20...50

Storage temperature [°C]

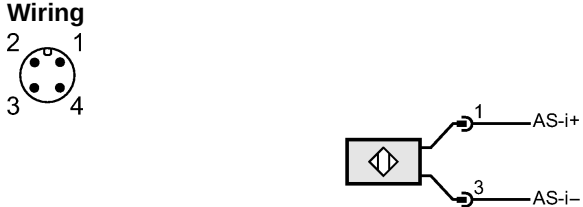
-25...80

Protection

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Tests / approvals

DTA100 - Read/write head - eclass: 27280401 / 27-28-04-01

Approval	Radio approvals Europe: 99/5/EC (R&TTE Directive) USA FCC ID: UN6DTS125AA Canada ID: 6799A-DTS125AA China ID: 2012DJ3745 Singapore: Registration Number S0533-07
EMC	EN 50295 (1999-03)
Shock resistance	EN 60068-2-29: 40 (6 ms) EN 60068-2-27: 50 g (11 ms)
Vibration resistance	EN 60068-2-6: 20 g (10...2000 Hz)
Safety classification	
MTTF [a]	422
AS-i classification	
AS-i profile	7.4
I/O configuration [hex]	7
ID code [Hex]	4
AS-i certificate	71501
Mechanical data	
Housing materials	PA (polyamide)
Weight [kg]	0.14
Displays / operating elements	
Display	3 LED green: operating voltage yellow: tag read red: error AS-i data communication
Electrical connection	
Connection	M12 connector; rotatable
Wiring	
	
Remarks	
Remarks	*) referred to the ID tag E80301 (middle of the screw) For the distances to other ID tags see the respective data sheet (E803xx) **) referred to the read/write head DTA100 and read head DTA101 1) cULus - Class 2 source required
Pack quantity [piece]	1
Other data	
Data provision time [ms]	≤ 70